

Michigan Tack Coat Specification

Michigan allows SS-1h or CSS-1h and specify a rate between 0.05 gallons/square yard and 0.15 gallons/square yard depending on the application.

501.03. Construction

D. Bond Coat

Uniformly apply the bond coat to a clean, dry, surface with a pressure distributor. Obtain the approval of the Engineer for the application rate after work begins. Apply the bond coat ahead of the paving operation to allow the bond coat to cure before placing HMA. Do not leave pools of bond coat on the surface and do not spray the bond coat on adjacent pavement surfaces. Apply the bond coat to each HMA layer and to the vertical edge of the adjacent pavement before placing subsequent layers.

Note: Michigan also has a permissive specification for low tracking bond coat.

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
LOW-TRACKING BOND COAT EMULSIFIED ASPHALT, PERMISSIVE USE

CFS:TRC

1 of 2

APPR:JWB:KPK:06-01-16
FHWA APPR:06-07-16

a. Description. This work consists of electing to furnish low-tracking bond coat emulsified asphalt in lieu of standard bond coat. Ensure all work is in accordance with section 904 of the Standard Specifications for Construction and applicable special provisions, except as modified herein. The low-tracking bond coat emulsified asphalt must conform to approved acceptance test methods and procedures described in the Materials Quality Assurance Procedures Manual. No deviations to acceptance test methods and procedures will be allowed.

b. Materials. The following types of low-tracking bond coat emulsified asphalt are allowed in lieu of the standard bond coat.

Table 1: Low-Tracking Bond Coat (LTBC) Emulsified Asphalt

Emulsified Asphalt Type	Specification Requirements
LTBC-1	Table 2
LTBC-2	Table 3

Table 2: Specification Requirements for LTBC-1

Parameter	Test Method	Minimum	Maximum
Saybolt Furol Viscosity, SFS @ 25 degrees C	<i>AASHTO T59</i>	15	100
Storage Stability, 24 Hrs, %	<i>AASHTO T59</i>	--	1
Storage Stability, 5 Days, %	<i>AASHTO T59</i>	--	5
Residue By Distillation, %	<i>AASHTO T59</i>	50	--
Oil Distillate, %	<i>AASHTO T59</i>	--	1
Sieve Test, %	<i>AASHTO T59</i>	--	0.30
Tests On Residue			
Penetration, @ 25 degrees C	<i>AASHTO T49</i>	--	20
Softening Point Range degrees C	<i>AASHTO T53</i>	60	--
Solubility, %	<i>AASHTO T44</i>	97.5	--

Table 3: Specification Requirements for LTBC-2

Parameter	Test Method	Minimum	Maximum
Saybolt Furol Viscosity, SFS @ 25 degrees C	<i>AASHTO T59</i>	15	100
Storage Stability, 5 Days, %	<i>AASHTO T59</i>	--	5
Residue By Distillation, %	<i>AASHTO T59</i>	50	--
Oil Distillate, %	<i>AASHTO T59</i>	--	1
Sieve Test, %	<i>AASHTO T59</i>	--	0.30
Tests On Residue			
Penetration, @ 25 degrees C	<i>AASHTO T49</i>	--	40
Solubility, %	<i>AASHTO T44</i>	97.5	--

c. Construction. Construct in accordance with subsection 501.03 of the Standard Specifications for Construction.

d. Measurement and Payment. When electing to substitute a low-tracking bond coat emulsified asphalt for the standard bond coat, it is with the understanding that the pay items in the original contract will not be changed and the low-tracking bond coat emulsified asphalt will be provided under those original pay items at the bid prices submitted.